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A coating composition includes at least one oligomer including a polyol soft block having a number average molecular weight of more than about 4000, and at least one reactive monomer. The cured coating composition has a tensile strength of at least about 0.85 MPa and a Young's Modulus of less than about 1.3 MPa. The invention further includes an optical fiber having a primary coating layer with the aforementioned coating composition and a method for coating the optical fiber.